PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	Applicant's or agent's file reference P1198PC00	FOR FURTHER	see Form PCT/ISA/220
	International application No.	ACTION as w	rell as, where applicable, item 5 below.
		International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
	PCT/EP2004/006843	24/06/2004	
	Applicant	7 007 2001	24/06/2003
	EPIGENOMICS AG		
		en prepared by this International Searching Aut ransmitted to the International Bureau.	thority and is transmitted to the applicant
	This International Search Report consists	s of a total of sheets.	
	X It is also accompanied by	a copy of each prior art document cited in this	Connect
		and the different and	
	a. With regard to the language the	international search was carried out on the bas ess otherwise indicated under this item.	sis of the international application in the
			ation of the international application furnished to
	b. X With regard to any nucleo	5 23.1(D)).	application furnished to
- 1		tide and/or amino acid sequence disclosed i	in the international application, see Box No. !.
- 1	2. Certain claims were foun	d unsearchable (See Box II).	
- 1	. =		
- 1	3. Unity of Image 2.		
- 1	3. Unity of invention is lack	ing (see Box III).	
	Unity of invention is lackWith regard to the title,	ing (see Box III).	
	4. With regard to the title,		
	4. With regard to the title, The text is approved as sub-	mitted by the applicant.	
	4. With regard to the title, The text is approved as sub-		
	4. With regard to the title, The text is approved as sub-	mitted by the applicant.	
	4. With regard to the title, The text is approved as sub-	mitted by the applicant.	
	4. With regard to the title, The text is approved as sub-	mitted by the applicant.	
	4. With regard to the title, The text is approved as sub-	mitted by the applicant.	
	4. With regard to the title, The text is approved as sub-	mitted by the applicant.	
	4. With regard to the title, X the text is approved as sub- the text has been established.	mitted by the applicant.	
5	4. With regard to the title, X the text is approved as substitute that has been established the text has been established.	mitted by the applicant. ed by this Authority to read as follows:	
5	4. With regard to the title, X	mitted by the applicant. ed by this Authority to read as follows:	
5	4. With regard to the title, X	mitted by the applicant. ed by this Authority to read as follows:	s it appears in Box No. IV. The applicant eport, submit comments to this Authority.
5	4. With regard to the title, X	mitted by the applicant. ed by this Authority to read as follows:	s It appears in Box No. IV. The applicant eport, submit comments to this Authority.
	4. With regard to the title, X	mitted by the applicant. ed by this Authority to read as follows: itted by the applicant. I, according to Rule 38.2(b), by this Authority and the date of mailing of this international search response.	s it appears in Box No. IV. The applicant eport, submit comments to this Authority.
	4. With regard to the title, X the text is approved as submitted that the text has been established the text has been established the text is approved as submitted that the text has been established may, within one month from the text has been established may, within one month from the text has been established may, within one month from the text has been established may, within one month from the text has been established may, within one month from the text has been established may, within one month from the text has been established may, within one month from the text has been established may, within one month from the text has been established may, within one month from the text has been established may be the text has been established m	mitted by the applicant. ed by this Authority to read as follows: itted by the applicant. , according to Rule 38.2(b), by this Authority and the date of mailing of this international search residued with the abstract is Figure No.	s it appears in Box No. IV. The applicant eport, submit comments to this Authority.
	4. With regard to the title, X	mitted by the applicant. ed by this Authority to read as follows: itted by the applicant. I, according to Rule 38.2(b), by this Authority and the date of mailing of this international search respectively.	
	4. With regard to the title, X the text is approved as submit the text has been established. X the text has been established the text has been established may, within one month from the text has been established may, within one month from the text has been established as suggested by the a as selected by this Au	mitted by the applicant. ed by this Authority to read as follows: itted by the applicant. , according to Rule 38.2(b), by this Authority and the date of mailing of this international search residued with the abstract is Figure No.	

INTERNATIONAL SEARCH REPORT

PCT/EP2004/006843

Box	No. I	N	lucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)	
1.	With inver	regard ntion, th	to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claime the international search was carried out on the basis of:	ed
	a.	type o	a sequence listing table(s) related to the sequence listing	
	b.	format X X	in written format in computer readable form	
	c.	time of	of filing/furnIshing contained in the international application as filed filed together with the international application in computer readable form furnished subsequently to this Authority for the purpose of search	
2.		or fu	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been file in instead, the required statements that the information in the subsequent or additional copies is identical to that in the lication as filed or does not go beyond the application as filed, as appropriate, were furnished.	iled Э
3.	Addit	ional co	omments:	
s				
٠				

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

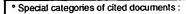
EPO-Internal, WPI Data, PAJ, MEDLINE, BIOSIS

C. DOCUMENTS	CONSIDERED TO	O BE RELEVANT
--------------	---------------	---------------

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/072880 A (EPIGENOMICS AG; OLEK, ALEXANDER; BERLIN, KURT) 19 September 2002 (2002-09-19)	1-24
Υ	cited in the application page 7 - page 31; claims 1-41; figures 10-13; examples 3-10	25
X	WO 00/70090 A (UNIVERSITY OF SOUTHERN CALIFORNIA) 23 November 2000 (2000-11-23)	1,2, 6-11, 13-16
Y .	page 10 - page 22; claims 1-26; figures 1-4; examples 2-4	3-5,12, 17-25
	-/	

_		
Ιv	Further documents are listed in the	continuation of box C.

Y Patent family members are listed in annex.



- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- O° document referring to an oral disclosure, use, exhibition or other means
- P* document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

1 April 2005

15/04/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer

Botz, J

		PCT/EP2004/006843		
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
P,X	COTTRELL SUSAN E ET AL: "A real-time PCR assay for DNA-methylation using methylation-specific blockers." NUCLEIC ACIDS RESEARCH. 2004, vol. 32, no. 1, 2004, pages E10-1-E10-8, XP002321756 ISSN: 1362-4962 the whole document	1-25		
P,Y	KAWAKAMI KAZUYUKI ET AL: "The folate pool in colorectal cancers is associated with DNA hypermethylation and with a polymorphism in methylenetetrahydrofolate reductase." CLINICAL CANCER RESEARCH: AN OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH. 1 DEC 2003, vol. 9, no. 16 Pt 1, 1 December 2003 (2003-12-01), pages 5860-5865, XP002321757 ISSN: 1078-0432 the whole document	1-25		
Y	WO 99/55905 A (COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION; CLARK, S) 4 November 1999 (1999-11-04) the whole document	1-25		
Y	WO 97/46705 A (THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE) 11 December 1997 (1997-12-11) the whole document	1-25		
Υ	ESTELLER M ET AL: "INACTIVATION OF GLUTATHIONE S-TRANSFERASE P1 GENE BY PROMOTER HYPERMETHYLATION IN HUMAN NEOPLASIA" CANCER RESEARCH, AMERICAN ASSOCIATION FOR CANCER RESEARCH, BALTIMORE, MD, US, vol. 58, 15 October 1998 (1998-10-15), pages 4515-4518, XP000982287 ISSN: 0008-5472 the whole document	1-25		
Υ	DATABASE GENBANK 'Online! US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; 5 December 1994 (1994-12-05), MORROW, C.S. ET AL.: "Structure of the human genomic gluth" XP002321758 Database accession no. M24485 cited in the application the whole document	1-25		

F



		PCT/EP2004/006843			
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
Y	DATABASE GENBANK 'Online! US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; 24 June 2003 (2003-06-24), RIEDER,M.J. ET AL.: "Homo sapiens glutathione S-transferase pi (GSTP1) gene, complete cds." XP002321759 Database accession no. AY324387 cited in the application abstract	1-25			

				1017	L1 2004/ 000843	
Patent document cited in search report		Publication date		Patent family member(s)	Publication datè	
WO 02072880	A	19-09-2002	DE	10112515 A1	14-11-2002	
WO 05075000	,,	25 05 2002	DE	10158283 A1	28-05-2003	
			CA	2435917 A1	19-09-2002	ļ
			WO	02072880 A2	19-09-2002	ļ
			EP	1370691 A2	17-12-2003	ļ
			JΡ	2004527241 T	09-09-2004	ļ
			US	2003082600 A1	01-05-2003	
WO 0070090	 А	23-11-2000	US	6331393 B1	18-12-2001	
NO 0070030	, ,	20 21 2000	AU	775798 B2	19-08-2004	
			AU	4712200 A	05-12-2000	1
			CA	2372665 A1	23-11-2000	
			EP	1185695 A1	13-03-2002	
			ĴΡ	2002543852 T	24-12-2002	ļ
			WO	0070090 A1	23-11-2000	
			US	2002086324 A1	04-07-2002	
WO 9955905	Α	04-11-1999	 AU	768791 B2	08-01-2004	
WO 3300300		• • • • • • • • • • • • • • • • • • • •	AU	3324199 A	16-11-1999	
			WO	9955905 A1	04-11-1999	
			CA	2326494 A1	04-11-1999	ļ
			EΡ	1071815 A1	31-01-2001	ļ
			JP	3522690 B2	26-04-2004	
			JP	2002512810 T	08-05-2002	
			NZ	507987 A	27-02-2004	
			ZA	200006803 A	10-05-2001	
WO 9746705	Α	11-12-1997	US	5786146 A	28-07-1998	
			US	6017704 A	25-01-2000	
			CA	2257104 A1	11-12-1997	
			EP	0954608 A1	10-11-1999	
			ΙL	127342 A	25-07-2002	
			JP	3612080 B2	19-01-2005	,
			JP	2000511776 T	12-09-2000	
			JP	2004290200 A	21-10-2004	
			WO	9746705 A1	11-12-1997	
			US	6200756 B1	13-03-2001	
			US	6265171 B1	24-07-2001	

0